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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/664,174	09/17/2003	Jong Min Lee	03-4279	3341

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EXAMINER
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STERLING, AMY JO

ART UNIT	PAPER NUMBER
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3632

DATE MAILED: 01/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/664,174	<b>Applicant(s)</b> LEE ET AL.	
	<b>Examiner</b> Amy J. Sterling	<b>Art Unit</b> 3632	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 08 November 2005.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-7 and 9-21 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 11-14 is/are allowed.
- 6) ☒ Claim(s) 1-5, 7, 9, 15 and 18-21 is/are rejected.
- 7) ☒ Claim(s) 6, 10, 16 and 17 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08 November 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### **DETAILED ACTION**

This is the **Final Office Action** for application number 10/664,174 Latch System for Video Monitor, filed on 9/17/03. Claims 1-7 and 9-21 are pending. This **Final Office Action** is in response to applicant's reply dated 11/8/05. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Applicant's amendment necessitated any new ground(s) of rejection presented in this Office action.

### ***Affidavit Submission***

The submission under 37 CFR 1.132 filed 11/8/05 is insufficient to overcome the rejection of the claim based upon Lu in view of Ceccanese et al. as set forth in the last Office action because: A new ground for rejection is recited below.

### ***Claim Objections***

Claim 6 is objected to because of the following informalities:

Claim 1 recites a "storage cavity" in line 2 and then claim 6, line 4 recites a "stowage cavity", these terms should be changed to be the same.

### ***Claim Rejections - 35 USC § 103***

Claims 1, 3, 7, 15 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over United States Patent Publication No. 6412848 to Ceccanese et al.

and in view of United States Patent No. 2001/0013742 to Lu, and in view of United States Patent Publication 2003/0216817 to Pudney.

Ceccanese et al. teaches a device (10) having a display housing (12) with a receptacle (area with screen), a console (14) having a storage cavity (34) with a wall with an aperture (29) therethrough, the horizontally oriented console (14) dimensioned to receive the display housing (12) and a releasable latch system (28), the display housing being mounted to the console which pivots downwardly into and out of the storage cavity, when released from the storage cavity, wherein the receptacle is in registration with the aperture when the display housing is in a stowed position within the storage cavity.

Ceccanese et al. does not disclose the specific details of the latch.

Lu teaches a latch system with a console (1) and a moveable member (2) with a receptacle (21), the latch system having a detent pin (321) extending through an aperture, the pin being normally biased to extend through the aperture and into the receptacle, also including a solenoid (32) carried on the console, the solenoid having a sliding core with detent pin being connected to the end of the solenoid, an input sensor (See page 2, paragraph 0025), with a sensor operatively connected to the input sensor and the solenoid for actuating the solenoid to withdraw the detent pin from the receptacle. Lu also teaches a processor (See Fig.1) connected to the circuit for actuating the solenoid, a processor input device, the processor receiving a signal from the input and in response to generating a signal for actuating the solenoid, the circuit actuating the solenoid and a power supply ( See page 1, paragraph 0012).

The latch design used for efficient latching of the device.

Ceccanese et al. and Lu do not specifically teach that the input sensor is a touch sensor, but it does specifically state that the input sensor can be any means of electronic or mechanical input device (See page 2, paragraph 0025).

Pudney teaches an input sensor for a latching device which includes a touch sensor (See Page 3, paragraph 0032), the device which uses a users engagement such as a finger to create an input to a sensor, so that the finger may activate the moveable object.

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention from the teachings of Lu and Pudney to have usedd the latching device as described and the sensor of Lu in order to have an efficient, finger activated latching system.

Claims 2, 4, 5 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over United States Patent Publication No. 6412848 to Ceccanese et al. and in view of United States Patent No. 2001/0013742 to Lu, and in view of United States Patent Publication 2003/0216817 to Pudney as applied to claim 1 above and further in view of United States Patent Publication No. 2003/0231768 to Rekimoto et al.

Ceccanese et al., Lu and Pudney disclose the basic inventive concept including a processor that receives a signal from the input device as shown above with the exception that they do not show wherein the exterior surface of the console includes a concave recess with at least a portion of the touch sensor being positioned within the

recess or wherein the touch sensor includes a pair of electrical contacts and a plurality of processor input devices.

Rekimoto et al. discloses a console (100) with a touch sensor (120) which includes a pair of electrical contacts (121) and a plurality of processor input devices (121, 122) all used for information input, the touch sensor which is positioned in a concave recess (100a), used so that the user may use digit sensitivity to find the location of the input. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention from the teachings Rekimoto et al. to have added these features to be able to customize the input desired.

Claims 18 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over United States Patent Publication No. 6412848 to Ceccanese et al. and in view of United States Patent No. 2001/0013742 to Lu, and in view of United States Patent Publication 2003/0216817 to Pudney as applied to claim 7 above and further in view of United States Patent Publication No. 2005/0251915 to Elizondo.

Ceccanese et al., Lu, and Pudney show the basic inventive concept with the exception that they do not teach a remote control sensor carried by the console, the sensor being operatively connected to the solenoid for actuation of the solenoid.

Elizondo teaches a latch releasing mechanism which is activated by a remote control (See page 2, paragraph 0026), and it would be obvious to activate the device using this type of input device. Although it is not specifically claimed that it uses an

infrared sensor to receive the remote device input, this is Official Notice that this technology is old in the art and therefore obvious from the teachings of Elizondo.

Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over United States Patent Publication No. 6412848 to Ceccanese et al. and in view of United States Patent No. 2001/0013742 to Lu, and in view of United States Patent Publication 2003/0216817 to Pudney as applied to claim 7 above and further in view of United States Patent Publication No. 2002/0093436 to Lien.

Ceccanese et al., Lu, and Pudney show the basic inventive concept with the exception that they do not teach wherein the membrane keyboard is the input device to activate the solenoid.

Membrane keyboards such as the one taught by Lien have been used as input devices for many reason. This is Official Notice that a keyboard, specifically a membrane keyboard are obvious permutations of the input device and therefore are obvious.

### ***Response to Arguments***

Applicant's arguments with respect to the claims above have been considered but are moot in view of the new ground(s) of rejection.

***Allowable Subject Matter***

Claims 11-14 are allowed.

Claims 6, 10, 16 and 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The reason is that the prior art does not teach a display driving circuit in response to the display housing position sensor, responding to the display housing being released from the storage cavity. The prior art also does not teach wherein the touch sensor has a touch contact terminal projecting from a contact plate, the contact plate being fixed to the interior of the console and the touch contact terminal projecting through an aperture in the console.

***Conclusion***


**THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later



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than SIX MONTHS from the date of this final action. Any inquiry concerning this communication should be directed to Amy J. Sterling at telephone number 571-272-6823. The examiner can normally be reached (M-F 8 a.m.-5:00 p.m.). If attempts to reach the examiner are unsuccessful, the examiner's supervisor, Robert Olszewski can be reached at 571-272-6788. The fax machine number for the Technology center is 571-273-8300 (formal amendments) or 571-273-6823 (informal amendments and communications). Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center receptionist at 571-272-3600.

  
Amy J. Sterling  
1/19/06